

# CONDOR

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## INSTRUMENTS

### ACTTRUST USER MANUAL



Condor Instruments Ltda.

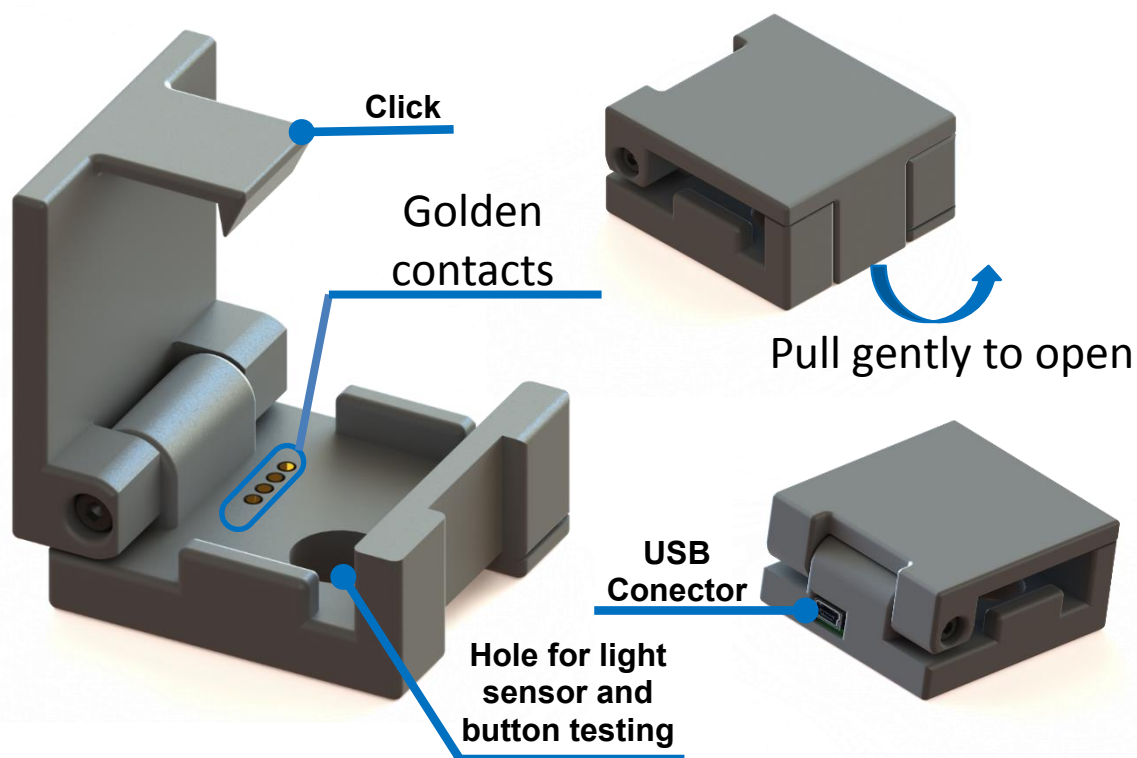
01/01/2015

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### ActDock

#### Description



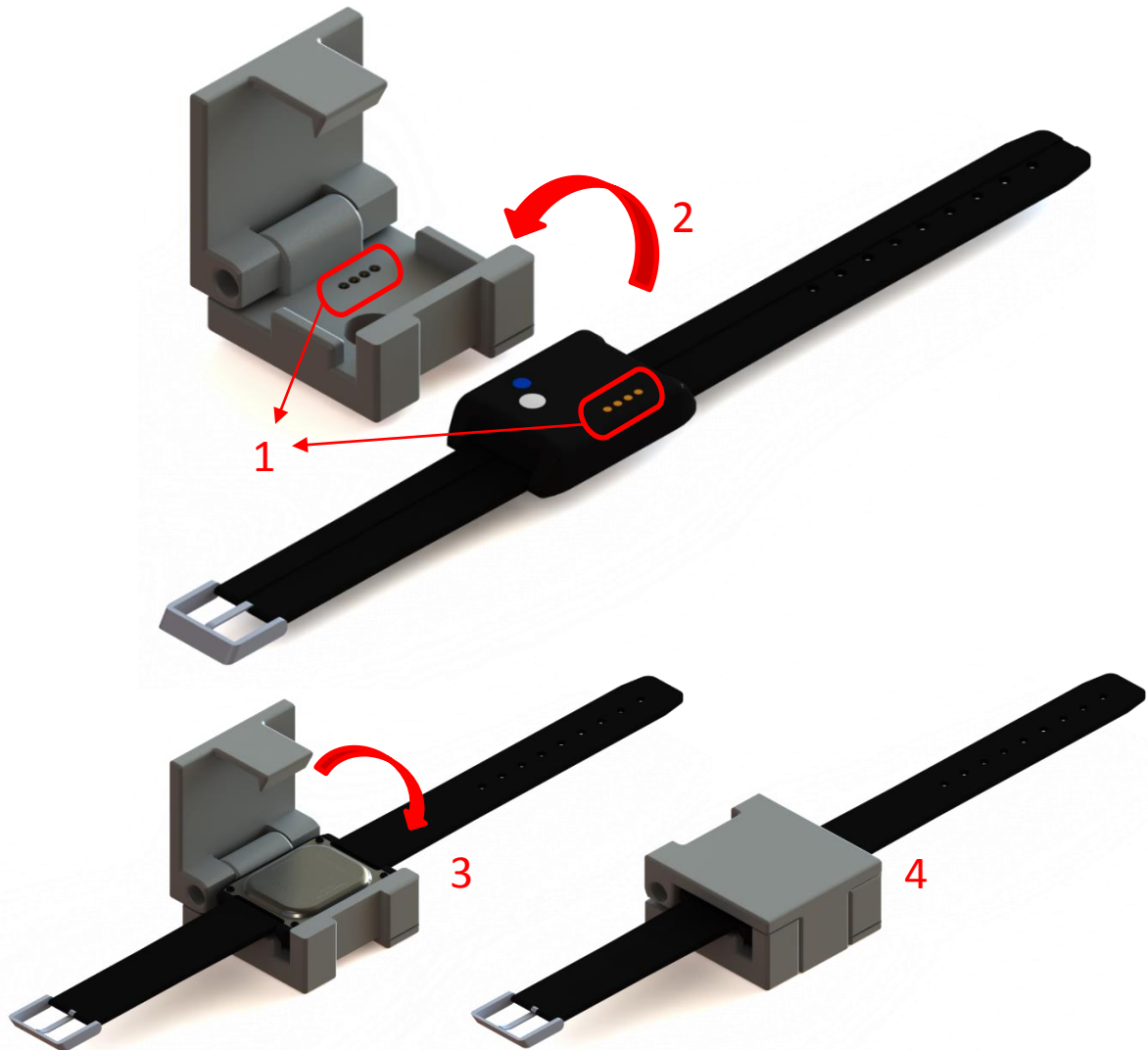
#### Cleaning and Maintenance

- Only clean using a damp cloth and mild soap.

#### Notes:

- Avoid contact with gasoline, benzine, thinner or acetone and, in case of contact with any of these substances, clean the device using a damp cloth and mild soap as soon as possible.
- Do not use abrasive cleaning components or highly alkaline (e.g., saponaceous or ammonia-based cleaners).
- Do not use Isopropanol or Butyl Cellulose in any surface of the dock.

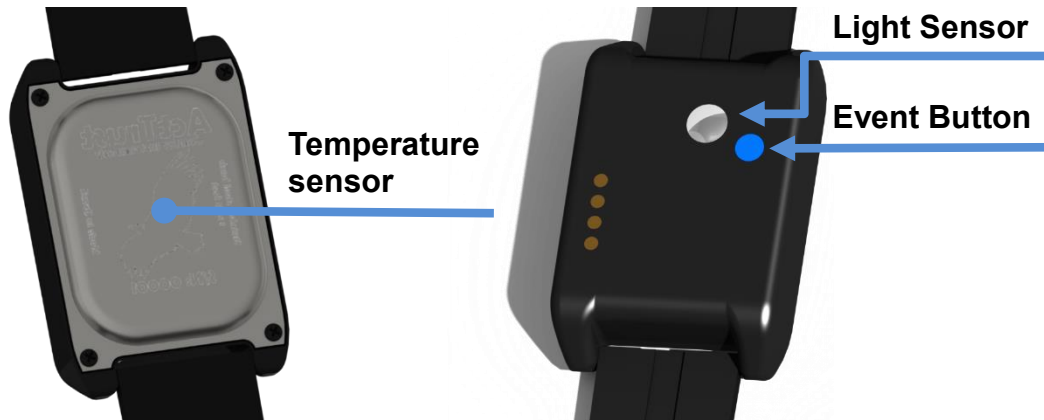
### Using the ActDock



1. Guarantee that the golden pins in both the dock and in the ActTrust are aligned as shown.
2. Rotate the ActTrust in order to dovetail it in dock.
3. Close the dock and pressure it until the click locks.

### ActTrust

#### Description



#### Cleaning and Maintenance

- Wash only with warm water and mild soap.
- Always wash the device when it got into contact with salt water.
- Whenever the ActTrust is going to be stored, put the same into power down mode.
- Do not leave the ActTrust with the battery fully discharged for long periods. This may reduce the lifetime of the internal battery.
- If the ActTrust is stored for long periods, perform a full charge of the battery every 6 months.

#### Notes:

- Avoid contact with gasoline, benzine, thinner or acetone and, in case of contact with any of these substances, wash the device with mild soap and water as soon as possible.
- Do not use abrasive cleaning components or highly alkaline (e.g., saponaceous or ammonia-based cleaners).
- Do not use Isopropanol or Butyl Cellulose in the protective surface of the ActTrust.
- Do not swim or dive with ActTrust.

## ActStudio Software

The ActStudio Software is used to extract and export data from the ActTrust. It is composed by 3 menus, described below.

### Installation

This software does not require any installation. It can be run from a pen drive or any other external device or from the computer it self.

To run the software just unzip the software file on the desired folder and the run the EXE file.

### Control Menu

ActStudio

Control Data Analysis Generate Statistics Print Report

CONTROL SUPPORT

DEVICE	ID	BATTERY	HARDWARE	FIRMWARE	POWER MODE	MEMORY
ActTrust	127	4.22 CHARGED	3.1	3.0	ACTIVE	0.23%

POWER MODE

**ACTIVE** Power Down Active

SENSORS

**ACCELEROMETER**

X: 32

Y: 0

Z: 32

**TEMPERATURE**

26.36

26.69

BUZZER

**LIGHT**

AMB: 0.04

R: 0.00

G: 0.01

B: 0.01

IR: 0.00

**SWITCH**

RELEASED

TIME

System: 02/02/2015 14:12:12

Device: 02/02/2015 14:12:18

Sync

CONFIGURATIONS

DESIRED		CURRENT
Mode	PIM	PIM
Interval	60	60

Apply -->

TAT THRESHOLD

1024 Apply --> 1024

LOG

Memory Usage 0.23% Erase

Read 100%

QUICK ACTIONS

READ / SAVE / POWER DOWN

APPLY / SYNC / ERASE

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INFORMATION	
<b>Device</b>	Name of the connected device
<b>Hardware Version</b>	Hardware version of the connected device.
<b>BATTERY</b>	Charge status of the battery of the connected device and its power.  CHARGING CHARGED
<b>Firmware Version</b>	Firmware version of the connected device.
<b>ID</b>	Unique identifier of the connected device.
<b>Power Mode</b>	Active or Power down
<b>Memory</b>	Percentage of the battery used

POWER DOWN	
<b>Label</b>	Identifies whether the device is set to power down (storage mode) when disconnected from the dock.  ENABLED: Device will enter in power down mode when you disconnect it from the dock. DISABLED: Device will enter in standard operation mode when you disconnect it from the dock.
<b>Power Down Button</b>	Sets the connected device to enter power down mode when disconnected from the dock.
<b>Active Button</b>	Sets the connected device to not enter power down mode when disconnected from the dock.

SENSORS	
<b>ACCELEROMETER</b>	Instantaneous sampled value of the internal accelerometer.
<b>TEMPERATURE</b>	Instantaneous sampled value of the internal temperature sensor (in ° C).
<b>LIGHT</b>	Instantaneous sampled value of the internal light meter.

TIME	
<b>System</b>	Date and Time of your computer.
<b>Device</b>	Date and Time of the connected device.
<b>Sync Time Button</b>	Synchronizes the time of the device connected to the computer's time.

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CONFIGURATIONS	
<b>DESIRED</b>	Desired settings of the connected device.
<b>CURRENT</b>	Current settings of the connected device.
<b>Mode</b>	Activity sampling mode:  TRIAXIAL: Vector composition of the three axes. UNIAXIAL: Each axis is calculated independently ( <b>not available</b> )  PIM: Proportional Integral Mode TAT: Time Above Threshold ZCM: Zero Crossing Mode
<b>Interval</b>	Sampling interval (in seconds between 1 and 86400).
<b>APPLY Button</b>	Apply the desired settings at the connected device.

LOG	
<b>Memory Usage</b>	Memory usage of the connected device.
<b>ERASE Button</b>	Clears the data stored in the memory of the connected device.
<b>READ Button</b>	Read the data stored in the memory of the connected device.



### Quick Operations Buttons

The screenshot shows the ActStudio software interface. At the top, there's a navigation bar with icons for Control, Data, Analysis, Generate Statistics, and Print Report. Below this, the 'CONTROL' tab is selected. The main area displays a table with device information:

DEVICE	ID	BATTERY	HARDWARE	FIRMWARE	POWER MODE	MEMORY
ActTrust	127	4.22 CHARGED	3.1	3.0	ACTIVE	0.23%

Below the table, there are several sections: POWER MODE (ACTIVE), CONFIGURATIONS (Mode: PIM, Interval: 60), SENSORS (ACCELEROMETER, TEMPERATURE, LIGHT, SWITCH), TAT THRESHOLD (1024), LOG (Memory Usage: 0.23%), and QUICK ACTIONS. The QUICK ACTIONS section contains two buttons highlighted with a red box and numbered:

- 2 READ / SAVE / POWER DOWN
- 1 APPLY / SYNC / ERASE

There are 2 buttons in the **Control** Menu that do not add any new functionality to the ActStudio software, but rather makes operations with the ActStudio software quicker. They are basically scripts that automate a series of operations implemented by other controls.

1. **APPLY / SYNC / ERASE:** performs the same operation as if the user had pressed the buttons **APPLY** (in the **CONFIGURATIONS** section), **Sync Time** (in the **TIME** section) and **ERASE** (in the **LOG** section) sequentially.

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2. **READ / SAVE / POWER DOWN:** performs the same operation as if the user had pressed the buttons **READ** (in the **LOG** section), **SAVE** (in the **LOG** section) and **ENABLE** (in the **POWER DOWN** section) sequentially.

### Data Menu

	DATE/TIME	TEMPERATURE	PIM	LUX
0	02/02/2015 08:28:18	26.72	69	0.01
1	02/02/2015 08:29:18	26.54	23	0.01
2	02/02/2015 08:30:18	26.44	123	0.01
3	02/02/2015 08:31:18	26.36	0	0.01
4	02/02/2015 08:32:18	26.30	0	0.01
5	02/02/2015 08:33:18	26.27	0	0.01
6	02/02/2015 08:34:18	26.24	0	0.01
7	02/02/2015 08:35:18	26.21	4	0.01
8	02/02/2015 08:36:18	26.19	0	0.01
9	02/02/2015 08:37:18	26.18	0	0.01
10	02/02/2015 08:38:18	26.18	0	0.01
11	02/02/2015 08:39:18	26.17	18	0.01
12	02/02/2015 08:40:18	26.17	0	0.01
13	02/02/2015 08:41:18	26.18	0	0.01
14	02/02/2015 08:42:18	26.17	0	0.01
15	02/02/2015 08:43:18	26.19	0	0.01
16	02/02/2015 08:44:18	26.20	0	0.00
17	02/02/2015 08:45:18	26.21	0	0.00

#### PERIOD SELECTION

Field used to select the period of the data to be exported.

<b>INITIAL</b>	Start date
<b>FINAL</b>	Final date

#### LOG SELECTION

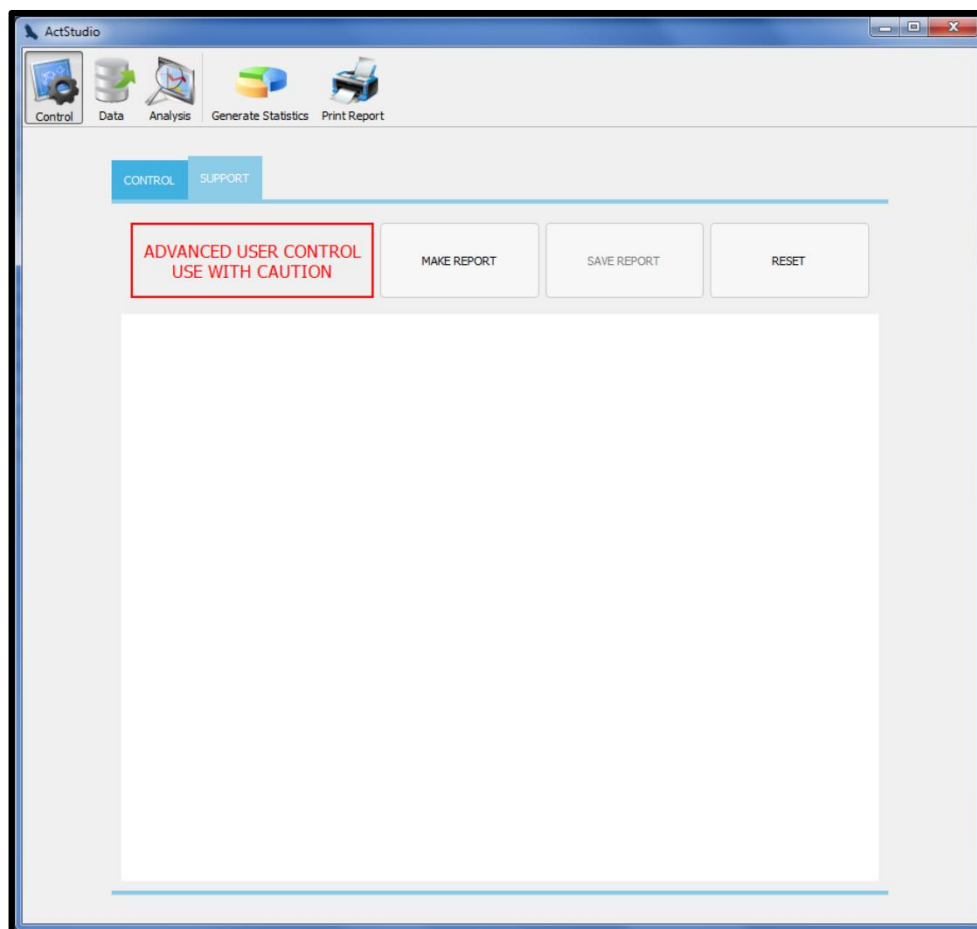
Field used to select types of log exported

<b>EVENTS</b>	Event logs (e.g. button press)
<b>DATA</b>	Data logs (activity, temperature and light).
<b>MIXED</b>	Just data logs (DATA) will be exported, but will be informed if there was some event during the Data log period.

DATA SELECTION	
Field used to select which data types to be exported	
<b>DATE/TIME</b>	Date and time of the log.
<b>MS</b>	Milliseconds value of the log.
<b>EVENT</b>	Normal Mode: Indicates whether the log is an event. Mixed Mode: Indicates whether there was an event during this log period.
<b>TEMPERATURE</b>	Value of the temperature (in ° C).
<b>PIM</b>	Activity value calculated in Proportional Integral Mode
<b>PIMn</b>	Value of the PIM normalized per second.
<b>TAT</b>	Activity value calculated in Time Above Threshold mode.
<b>TATn</b>	Value of the TAT normalized per second.
<b>ZCM</b>	Activity value calculated in Zero Crossing Mode
<b>ZCMn</b>	Value of the ZCM normalized per second.
<b>LIGHT</b>	Value of light intensity (in Lux).

EXPORT/IMPORT	
<b>DATA DELIMITER</b>	Character used to delimit data when exported.  TAB SEMICOLON(;) )
<b>DECIMAL MARK</b>	Character used as decimal mark when exported.  COMMA(,) ) Point(.) )
<b>DATE FORMAT</b>	Date and Time field formatting when exported.  NORMAL: Date and time delimited by a space. DELIMITED: Date and time delimited by the delimiter character (DATA DELIMITER) chosen. CUSTOM: Date and time in the format HHMM.
<b>Include Header</b>	Selects whether to include a header in the exported data.
<b>Save Button</b>	Saves the extracted data with the desired settings.
<b>Open Button</b>	Open data from old logs(the data must have the header).

### Support Menu



CONTROLES	
<b>MAKE REPORT Button</b>	Generates a report with relevant information about the connected device.
<b>SAVE REPORT Button</b>	Save the report generated with the MAKE REPORT button.
<b>RESET Button</b>	Resets the connected device.

### Configuring ActTrust for an Operation

The screenshot shows the ActStudio software interface. At the top, there's a navigation bar with icons for Control, Data, Analysis, Generate Statistics, and Print Report. Below this, there's a table with columns: DEVICE, ID, BATTERY, HARDWARE, FIRMWARE, POWER MODE, and MEMORY. The first row shows 'ActTrust' with ID '27', BATTERY '4.22 CHARGED', and MEMORY '0.23%'. A red box with the number '4' highlights the BATTERY column. Below the table, there's a 'POWER MODE' section with 'ACTIVE' selected. To the right, there's a 'CONFIGURATIONS' section with 'Mode' set to 'PIM' and 'Interval' set to '60'. A red box with the number '1' highlights this section. Below 'CONFIGURATIONS' is a 'TAT THRESHOLD' section with '1024' entered. To the left of 'CONFIGURATIONS' is a 'SENSORS' section with 'ACCELEROMETER' (X: 32, Y: 0, Z: 32), 'TEMPERATURE' (26.36, 26.69), 'LIGHT' (AMB: 0.04, R: 0.00, G: 0.01, B: 0.01, IR: 0.00), and 'SWITCH' (RELEASED). Below 'SENSORS' is a 'TIME' section with 'System' and 'Device' timestamps and a 'Sync' button. A red box with the number '3' highlights this section. To the right of 'TIME' is a 'LOG' section with 'Memory Usage' at '0.23%' and an 'Erase' button. A red box with the number '2' highlights this section. At the bottom, there's a 'QUICK ACTIONS' section with buttons for 'READ / SAVE / POWER DOWN' and 'APPLY / SYNC / ERASE'.

1. Choose the sampling mode and the sampling interval in the **CONFIGURATIONS** field. Click the **APPLY** button.
2. It is recommended to delete all data on the device used before starting a new sampling to maintain data consistency. In order to do so, click the **ERASE** button in the **LOG** field. A window asking if you really want to delete the data from the device will appear. Click **YES**.
3. It is advisable to synchronize the device time with the time of the user's computer in order to reduce any accumulated drift. To do this, click in the **SYNC** button on the **TIME** field.

4. It is advisable to wait until the device's battery is fully charged to ensure the operating time specified. To monitor the state of the battery charge, check the **BATTERY** field. When the battery is fully charged, it will be indicated as **CHARGED**.
5. With all the desired settings done, the device can be removed from the dock and it will be already in operation.

**REMARKS:** After performing the steps 1 – 4 once, the configuration process can be performed by using the **APPLY / SYNC / ERASE** Button.

### Putting ActTrust Into Power Down Mode

The screenshot shows the ActStudio interface with the following components:

- Top Bar:** ActStudio title bar and navigation icons (Control, Data, Analysis, Generate Statistics, Print Report).
- Navigation:** CONTROL and SUPPORT tabs.
- Table:**

DEVICE	ID	BATTERY	HARDWARE	FIRMWARE	POWER MODE	MEMORY
ActTrust	12	4.22 CHARGED	3.0	3.0	ACTIVE	0.23%
- POWER MODE Section (Highlighted with '1'):**
  - Current mode: **ACTIVE**
  - Buttons: Power Down, Active
- SENSORS Section:**
  - ACCELEROMETER:** X: 32, Y: 0, Z: 32
  - TEMPERATURE:** 26.36, 26.69
  - BUZZER:** Button
  - LIGHT:** AMB: 0.04, R: 0.00, G: 0.01, B: 0.01, IR: 0.00
  - SWITCH:** RELEASED
- TIME Section:**
  - System: 02/02/2015 14:12:12
  - Device: 02/02/2015 14:12:18
  - Sync:** Button
- CONFIGURATIONS Section:**
  - Mode:** PIM (Desired), PIM (Current)
  - Interval:** 60
  - TAT THRESHOLD:** 1024
  - LOG:** Memory Usage 0.23%, Erase button
  - QUICK ACTIONS:** READ / SAVE / POWER DOWN, APPLY / SYNC / ERASE

1. In **POWER DOWN** field, click in the Power Down button. Make sure the field show's **POWER DOWN**.
2. It is recommended to wait until the ActTrust's battery is fully charged before putting it in storage mode. To monitor the state of the battery charge, check the **BATTERY** field. When the battery is fully charged, it will be indicated as **CHARGED**.



3. Just remove the ActTrust from the dock and it will already be in storage mode. In case it is reconnected to the dock, it will automatically come into the datalogger mode. If you want to check the device actually is in storage mode, press the event button a few seconds after it is removed from the dock. The buzzer should not beep when pressing the button. If the buzzer beeps, repeat the steps described above again.

### Extracting ActTrust Data

The screenshot shows the ActStudio software interface. At the top, there is a menu bar with icons for Control, Data, and Analysis. The 'Data' icon is highlighted with a red box and a red number '2'. Below the menu bar, there are tabs for CONTROL and SUPPORT. The main area displays a table with device information:

DEVICE	ID	BATTERY	HARDWARE	FIRMWARE	POWER MODE	MEMORY
ActTrust	127	4.22 CHARGED	3.1	3.0	ACTIVE	0.23%

Below the table, there are several sections: POWER MODE (ACTIVE), CONFIGURATIONS (Mode: PIM, Interval: 60), SENSORS (ACCELEROMETER, TEMPERATURE, LIGHT, SWITCH), TAT THRESHOLD (1024), LOG (Memory Usage: 0.23%), and QUICK ACTIONS (READ / SAVE / POWER DOWN, APPLY / SYNC / ERASE). The 'LOG' section is highlighted with a red box and a red number '1'. It shows 'Memory Usage' at 0.23% and a 'Read' button.

1. Click the **READ** button in the **LOG** field. Wait for the reading to be performed. The software will freeze while reading.
2. Navigate to the **DATA** menu.

The screenshot shows the ActStudio software interface. The top menu bar includes 'Control', 'Data', 'Analysis', 'Generate Statistics', and 'Print Report'. The main window is divided into several sections:

- PERIOD SELECTION (3):** Contains 'INITIAL' and 'FINAL' date pickers, both set to 02/02/2015.
- DATA SELECTION (4):** A list of data types with checkboxes: DATE/TIME (checked), MS, EVENT, TEMPERATURE (checked), EXT TEMPERATURE, PIM (checked), and PIMn.
- LOG SELECTION (5):** Contains checkboxes for DATA, EVENTS, and MIXED (checked).
- EXPORT/IMPORT:** A section with four sub-sections:
  - DATA DELIMITER (7):** Radio buttons for SEMICOLON (selected), TAB, and CUSTOM.
  - DECIMAL MARK (8):** Radio buttons for COMMA and POINT (selected).
  - DATE FORMAT (9):** Radio buttons for NORMAL (selected), DELIMITED, and CUSTOM.
  - Include Header (10):** A checkbox that is checked, with 'SAVE' and 'OPEN' buttons below it.
- Table (6):** A data table with columns: DATE/TIME, TEMPERATURE, PIM, and LUX. It contains 17 rows of data.

3. Select the period of the data to be exported in **PERIOD SELECTION** field
4. Select the data to be exported in the **DATA SELECTION** field.
5. Select the types of log to be included in the exported file in the **LOG SELECTION** field.
6. The exported data can be seen in **Table** tab.
7. In the **DATE DELIMITER** field, select which character will be used as the data delimiter.

8. In the **DECIMAL MARK** field, select which character will be used as decimal separator.
9. In the **DATE FORMAT** field, select which format will be used for the date and time of exported logs.
10. Select **INCLUDE HEADER** if you want to include a header in the exported data. Press the Save button and select where the data will be saved and the file name.

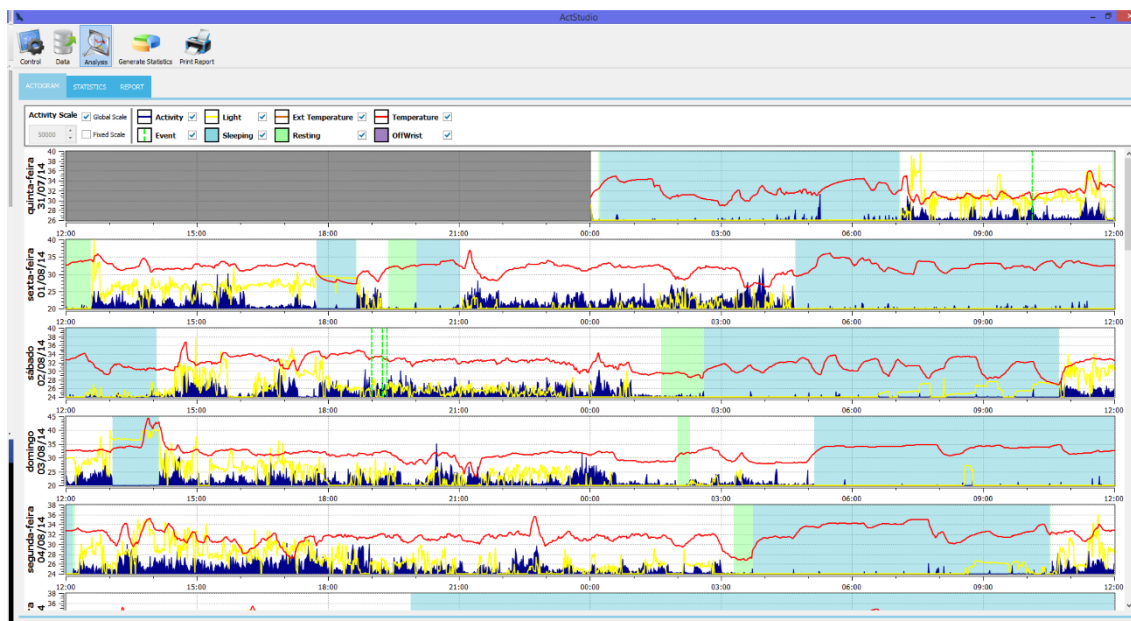
**REMARKS:** After performing the steps 2 – 11 once, the data extraction process can be performed by using the **READ / SAVE /POWER DOWN** Button with the additional effect of enabling the power down mode of the device.

### Data Analysis

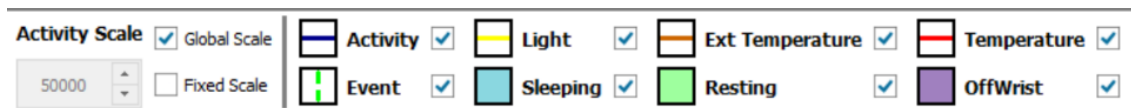
On this menu the data extracted in the previous steps can be analysed and additional information can be attached

### Actogram

An actogram can be plotted and edited for publishing it on the report



### Plot Setup



On the top of the window there is a configuration menu it has the following options and configurations

Plot Setup	
<b>Activity Scale</b>	Sets the scale that will be used to display activity data.  Global Scale – Same scale used to all plots Fixed scale – Use the scale set manually by the user
<b>Activity</b>	Select if Activity data will or will not be shown in the graphs
<b>Event</b>	Select if Event data will or will not be shown in the graphs
<b>Light</b>	Select if Light data will or will not be shown in the graphs
<b>Sleeping</b>	Select if computer calculated Sleeping time will or will not be shown in the graphs

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<b>Ext Temperature</b>	Select if External Temperature data will or will not be shown in the graphs
<b>Resting</b>	Select if computer calculated Resting time will or will not be shown in the graphs
<b>Temperature</b>	Select if Temperature data will or will not be shown in the graphs
<b>OffWrist</b>	Select if computer calculated time where the device was not worn will or will not be shown in the graphs

## Statistics

This page will calculate and show the daily analyses of sleep performance

Control

Data

Analysis

Generate Statistics

Print Report

ACTOGRAM

STATISTICS

REPORT

Date	Bed Time	Get Up Time	Time in Bed (hours)	Total Sleep Time (hours)	Onset Latency (hours)	Sleep Efficiency (Percent)	WASO (minutes)	#Awak.
31/07/2014	00:11:52	07:05:52	06:54:00	06:51:00	00:02:00	0.992754	00:00:00	0
01/08/2014	04:41:52	-	07:18:08	07:18:08	00:00:00	1	00:00:00	0
02/08/2014	01:37:52	10:44:52	09:07:00	08:07:00	00:59:00	0.890311	00:00:00	0
03/08/2014	05:07:52	-	06:52:08	06:52:08	00:00:00	1	00:00:00	0
04/08/2014	03:16:52	10:32:52	07:16:00	06:47:00	00:27:00	0.933486	00:00:00	0
05/08/2014	19:53:52	-	16:06:08	16:06:08	00:00:00	1	00:00:00	0
06/08/2014	02:21:52	07:51:52	05:30:00	05:26:00	00:02:00	0.987879	00:00:00	0
07/08/2014	03:50:52	10:48:52	06:58:00	06:51:00	00:06:00	0.983254	00:00:00	0
08/08/2014	05:53:52	-	06:06:08	06:06:08	00:00:00	1	00:00:00	0
09/08/2014	05:22:52	10:12:52	04:50:00	04:11:00	00:38:00	0.865517	00:00:00	0
10/08/2014	02:22:52	09:43:52	07:21:00	06:43:00	00:00:00	0.913832	00:36:00	1
11/08/2014	04:46:52	10:30:52	05:44:00	05:43:00	00:00:00	0.997093	00:00:00	0
12/08/2014	03:58:52	09:32:52	05:34:00	05:30:00	00:02:00	0.988024	00:00:00	0
13/08/2014	03:21:52	10:34:52	07:13:00	07:13:00	00:00:00	1	00:00:00	0
14/08/2014	03:33:52	11:03:52	07:30:00	07:27:00	00:01:00	0.993333	00:00:00	0
15/08/2014	03:53:52	-	08:06:08	08:06:08	00:00:00	1	00:00:00	0
16/08/2014	03:41:52	10:37:52	06:56:00	05:08:00	00:05:00	0.740385	01:40:00	1
17/08/2014	02:35:52	10:53:52	08:18:00	07:37:00	00:40:00	0.917671	00:00:00	0
18/08/2014	04:47:52	-	07:12:08	07:12:08	00:00:00	1	00:00:00	0
19/08/2014	05:40:52	-	06:19:08	06:04:08	00:15:00	0.960436	00:00:00	0
20/08/2014	04:49:52	-	07:10:08	07:10:08	00:00:00	1	00:00:00	0
21/08/2014	09:20:52	-	02:39:08	02:39:08	00:00:00	1	00:00:00	0
22/08/2014	-	16:16:52	04:16:52	04:16:52	00:00:00	1	00:00:00	0
23/08/2014	04:18:52	-	07:41:08	07:18:08	00:23:00	0.950123	00:00:00	0
24/08/2014	17:18:33	12:00:00	18:41:27	00:00:00	00:00:00	0.950123	00:00:00	0

### Report

Here it is possible to include wearer information's and doctor conclusions. All those informations will be included in the pdf report file

Control

Data

Analysis

Generate Statistics

Print Report

ACTOGRAM

STATISTICS

REPORT

SUBJECT INFORMATION

Subject ID:

Date of Birth:

01/01/2000

Age:

Gender

Male

Recording Period

01/08/2014 00:00:52 - 24/08/2014 18:08:33

INDICATIONS FOR USE

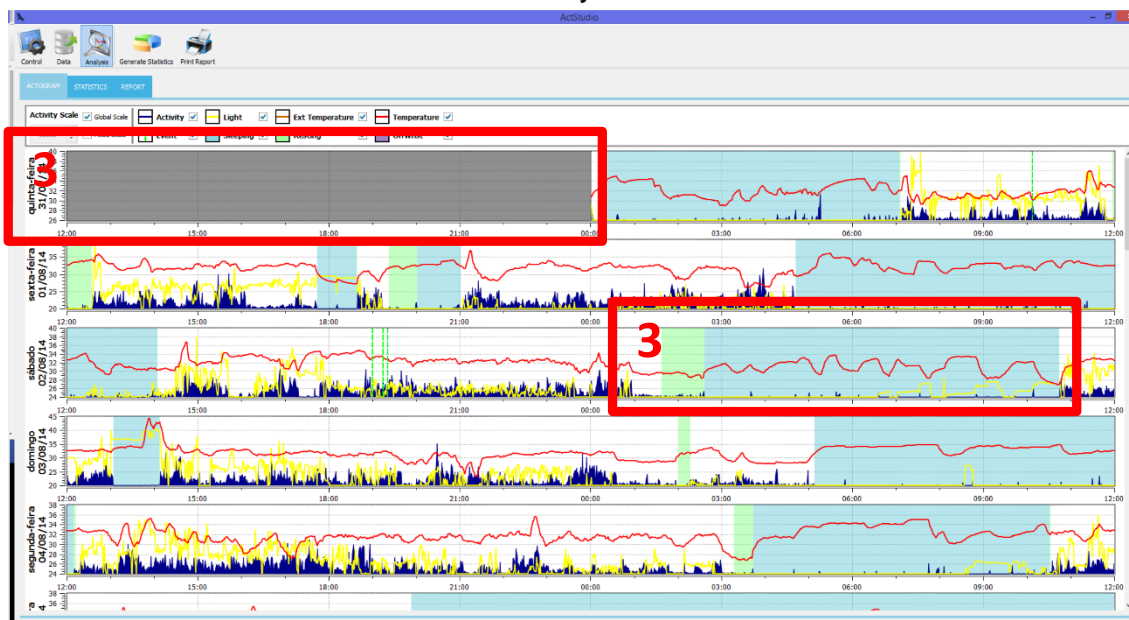
SUMMARY STATISTICS

	Bed Time	Get Up Time	Time in Bed (hours)	Total Sleep Time (hours)	Onset Latency (hours)	Sleep Efficiency (Percent)	WASO (minutes)	#Awak.
Min	17:18:33	12:00:00	02:39:08	02:39:08	00:01:00	0.740385	00:36:00	0
Max	09:20:52	11:03:52	18:41:27	16:06:08	00:59:00	1	01:40:00	1
Avg	14:17:11	09:10:08	07:30:23	06:46:48	00:18:20	1.00228	01:08:00	0.08

INTERPRETATION

### Making a Report

1. Extract or load the data to be analyzed.



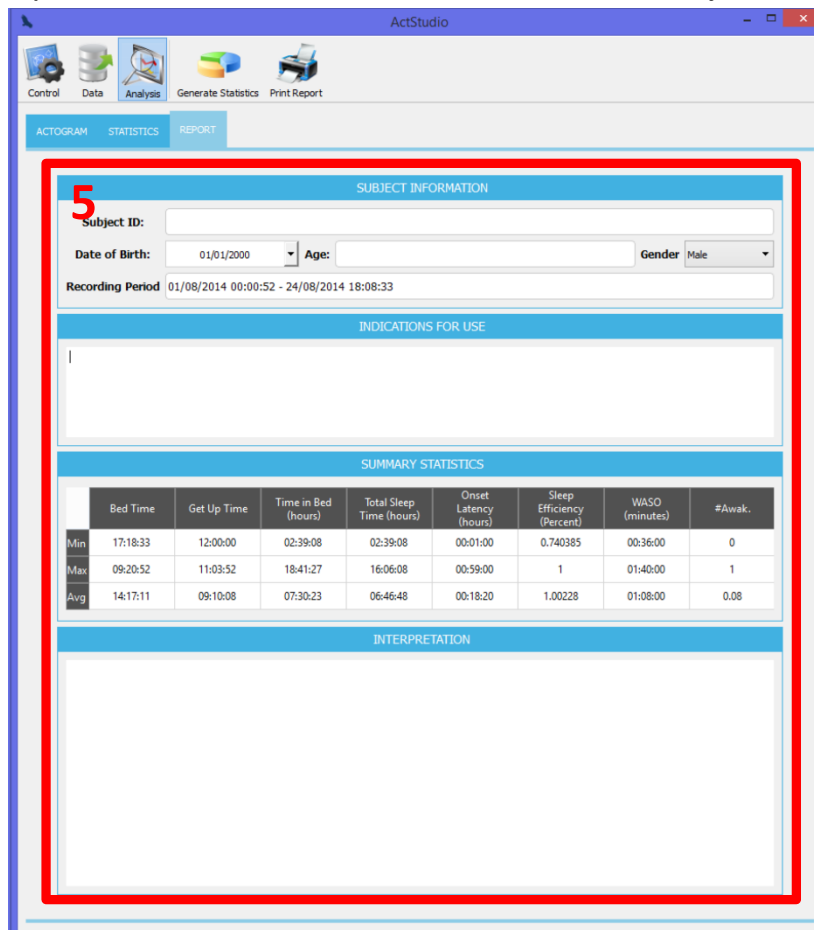
2. Go to the Actogram menu and verify the data.
3. If necessary, all the areas (off wrist, sleep, rest) can be edited and reassigned.
4. On the statistics menu the statistics can be checked

The screenshot shows the ActStudio interface with the 'Statistics' menu highlighted. A red box labeled '4' points to the 'Statistics' menu item. Below it, a table of sleep statistics is displayed.

#	Bed Time	Get Up Time	Time in Bed (hours)	Total Sleep Time (hours)	Onset Latency (hours)	Sleep Efficiency (Percent)	WASO (minutes)	#Awak.
31/07/2014	00:11:52	07:05:52	06:54:00	06:51:00	00:02:00	0.992754	00:00:00	0
01/08/2014	04:41:52	-	07:18:08	07:18:08	00:00:00	1	00:00:00	0
02/08/2014	01:37:52	10:44:52	09:07:00	08:07:00	00:59:00	0.890311	00:00:00	0
03/08/2014	05:07:52	-	06:52:08	06:52:08	00:00:00	1	00:00:00	0
04/08/2014	03:16:52	10:32:52	07:16:00	06:47:00	00:27:00	0.933486	00:00:00	0
05/08/2014	19:53:52	-	16:06:08	16:06:08	00:00:00	1	00:00:00	0
06/08/2014	02:21:52	07:51:52	05:30:00	05:26:00	00:02:00	0.987879	00:00:00	0
07/08/2014	03:50:52	10:48:52	06:58:00	06:51:00	00:06:00	0.983254	00:00:00	0
08/08/2014	05:53:52	-	06:06:08	06:06:08	00:00:00	1	00:00:00	0
09/08/2014	05:22:52	10:12:52	04:50:00	04:11:00	00:38:00	0.865517	00:00:00	0
10/08/2014	02:22:52	09:43:52	07:21:00	06:43:00	00:00:00	0.913832	00:36:00	1
11/08/2014	04:46:52	10:30:52	05:44:00	05:43:00	00:00:00	0.997093	00:00:00	0
12/08/2014	03:58:52	09:32:52	05:34:00	05:30:00	00:02:00	0.988024	00:00:00	0
13/08/2014	03:21:52	10:34:52	07:13:00	07:13:00	00:00:00	1	00:00:00	0
14/08/2014	03:33:52	11:03:52	07:30:00	07:27:00	00:01:00	0.993333	00:00:00	0
15/08/2014	03:53:52	-	08:06:08	08:06:08	00:00:00	1	00:00:00	0
16/08/2014	03:41:52	10:37:52	06:56:00	05:08:00	00:05:00	0.740385	01:40:00	1
17/08/2014	02:35:52	10:53:52	08:18:00	07:37:00	00:40:00	0.917671	00:00:00	0
18/08/2014	04:47:52	-	07:12:08	07:12:08	00:00:00	1	00:00:00	0
19/08/2014	05:40:52	-	06:19:08	06:04:08	00:15:00	0.960436	00:00:00	0
20/08/2014	04:49:52	-	07:10:08	07:10:08	00:00:00	1	00:00:00	0
21/08/2014	09:20:52	-	02:39:08	02:39:08	00:00:00	1	00:00:00	0
22/08/2014	-	16:16:52	04:16:52	04:16:52	00:00:00	1	00:00:00	0
23/08/2014	04:18:52	-	07:41:08	07:18:08	00:23:00	0.950123	00:00:00	0
24/08/2014	17:18:33	12:00:00	18:41:27	00:00:00	00:00:00	0.950123	00:00:00	0



- On the report menu, insert all relevant data about the subject.



**5**

**SUBJECT INFORMATION**

Subject ID:

Date of Birth:  Age:  Gender:

Recording Period:

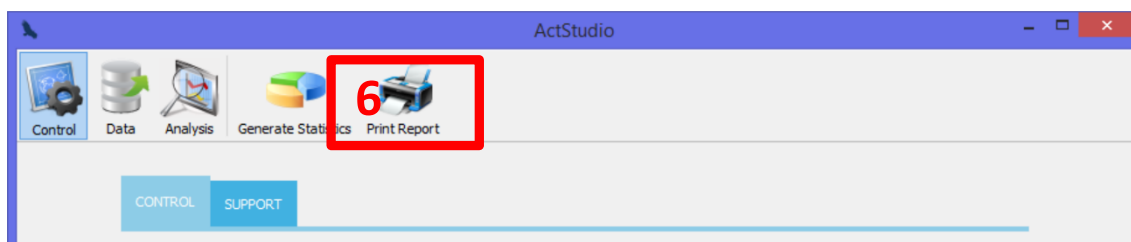
**INDICATIONS FOR USE**

**SUMMARY STATISTICS**

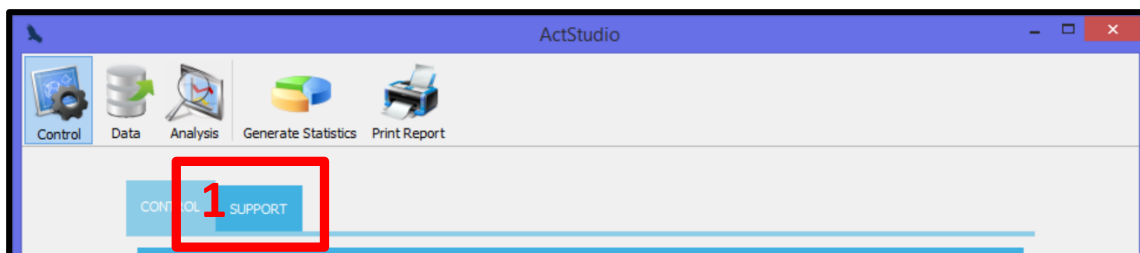
	Bed Time	Get Up Time	Time in Bed (hours)	Total Sleep Time (hours)	Onset Latency (hours)	Sleep Efficiency (Percent)	WASO (minutes)	#Awak.
Min	17:18:33	12:00:00	02:39:08	02:39:08	00:01:00	0.740385	00:36:00	0
Max	09:20:52	11:03:32	18:41:27	16:06:08	00:59:00	1	01:40:00	1
Avg	14:17:11	09:10:08	07:30:23	06:46:48	00:18:20	1.00228	01:08:00	0.08

**INTERPRETATION**

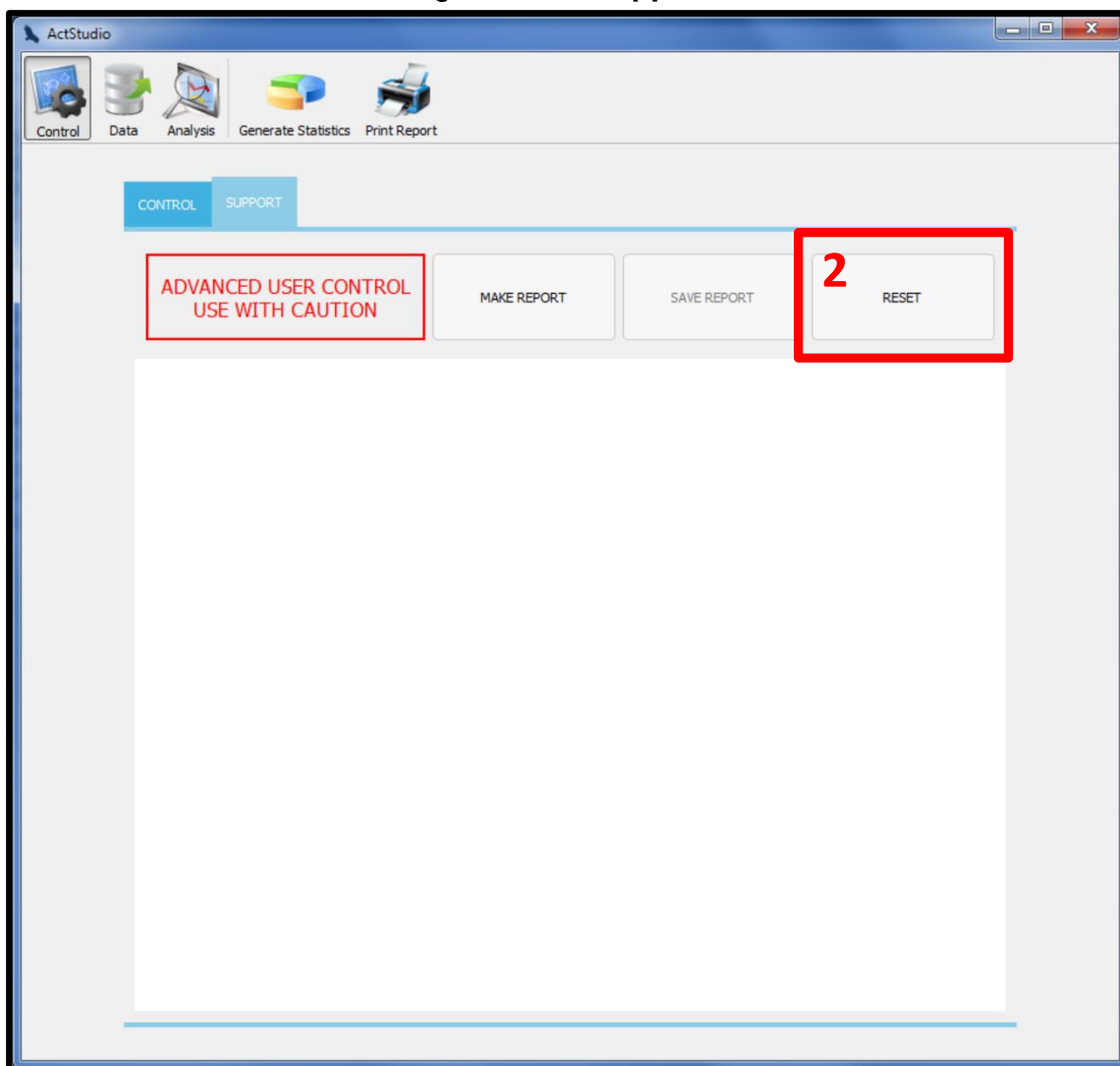
- Click on the print report button and select the location where the report will be saved.



### Rebooting ActTrust

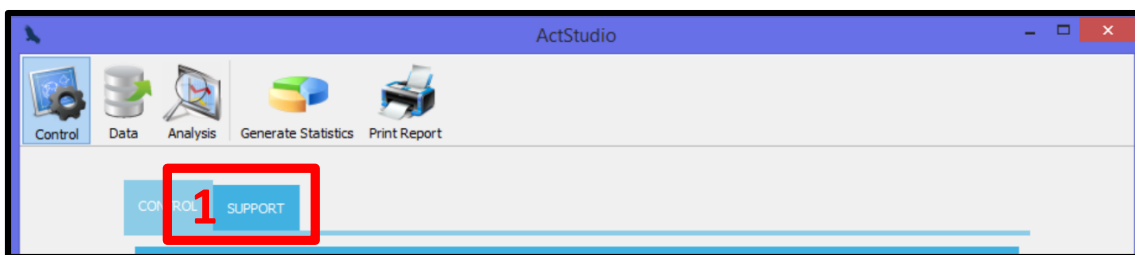


1. In the **Control** Menu, Navigate to the **Support** Menu.

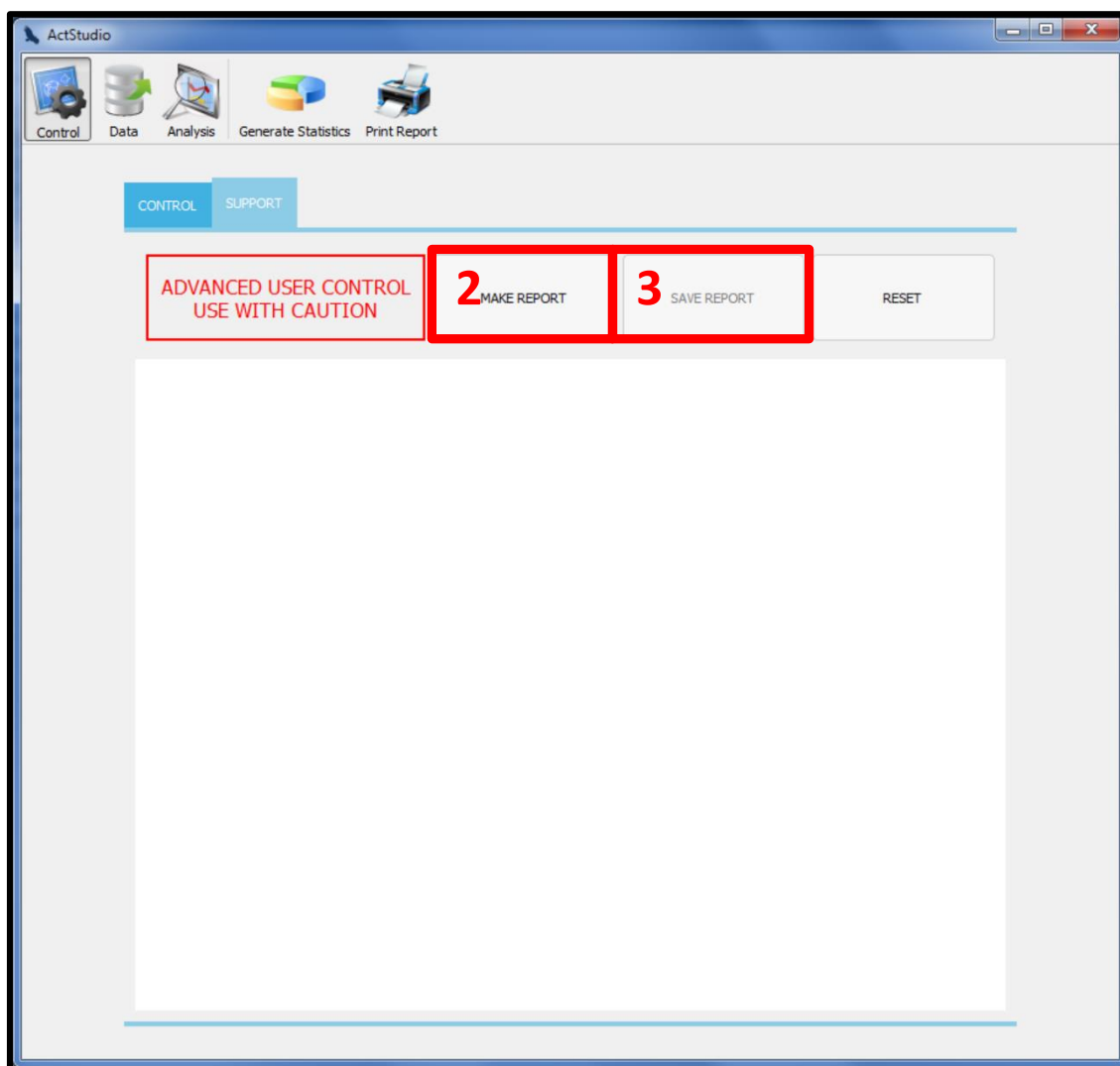


2. Press the **RESET** button and wait.

### Generating a Report of the ActTrust



3. Navigate to the **Support** Menu.



1. Press the **MAKE REPORT** button and wait for the report to be generated and displayed in the text box.
2. Press the **SAVE REPORT** button and select the file name and location where the report will be saved.

## Troubleshooting

Most problems with the ActTrust can be resolved quickly following the guidelines in this chapter. If the problem persists, please contact Condor Instruments personnel to receive new guidelines.

### My ActTrust is beeping every one minute

When the charge of the battery of your ActTrust device is very low, it starts beeping every minute to inform you that soon it will enter in storage mode to ensure that it will not operate at unreliable conditions. To solve this problem, recharge your ActTrust and it should stop beeping.

### I push the events button, but I'm not hearing any beep

This can be caused mainly by two reasons. The first is due to a low battery charge of the ActTrust. The second is the possibility that the device is in power down mode. In both cases, connect your device to your computer using the dock interface. Wait at least 5 minutes and follow the procedure described in this manual to reset the device. Disconnect it from the dock and check if the problem persists.

### When connecting the ActTrust on the computer a message appears on ActStudio software

The procedure will depend on the message itself.

If the message **"Device With Low Battery"** shows up, allow the battery to charge for a few minutes and follow the procedure described in this manual to reset the ActTrust.

If the message **"Error With Device State"** show up, follow the procedure described in this manual to generate a report and save the document to a known location. After saving the report, try restarting the device. If the problem persists, please contact Condor Instruments personnel to receive new guidelines. If contacting by email, please attach the report generated by ActStudio.

### **The numbers that appear in ActStudio seems strange**

This may be due to a problem initializing the device when the battery charge is too low. Connect the device at the ActDock, wait a few minutes to make sure the battery has a safe charge level and follow the procedure described in this manual to reset the ActTrust. If the problem persists, please contact Condor Instruments personnel.